

Application No.: 09/695,429

Docket No.: JCLA6009

In The Claims:

Claims 1-12 (canceled)

13. (currently amended) An ultrasonic signaling interactive toy, comprising:

C1 an ultrasonic transceiver for transmitting and receiving ultrasonic signals, wherein the ultrasonic signals are transmitted with respect to a sequence of time periods to form a digital modulation signal~~[includes a digital modulation signal]~~; and

an interactive toy having at least one internal transceiver capable of producing a response after receiving ~~[an ultrasonic]~~ the digital modulation signal.

wherein a content of the digital modulation signal is determined by whether or not the ultrasonic signal is exiting with respect to the time periods, so as to recover a content carried by the digital modulation signal.

14. (previously added) The interactive toy of claim 13, wherein the digital modulation signal comprises a data information or an instruction.

15. (previously added) The interactive toy of claim 13, wherein the response comprises one selected from the group consisting of an audible sound, and image output, and a motion.

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16. (previously added) The interactive toy of claim 13, wherein the ultrasonic signal includes a plurality of target messages for informing a plurality of interaction toys at the same time so that each interactive toy can produce a corresponding response.

17. (previously added) The interactive toy of claim 13, wherein the ultrasonic transceiver further includes a fixed interval sampling circuit for receiving the ultrasonic signal and sampling at fixed intervals so that a corresponding digital signal is output when the sample contains an ultrasonic signal and a reverse-phase digital signal is output when the sample does not contain an ultrasonic signal.

18. (previously added) The interactive toy of claim 13, wherein the ultrasonic transceiver further includes a wave inspection circuit for receiving the ultrasonic signal and converting the ultrasonic signal back to the original digital signal before signal modulation.

19. (previously added) The interactive toy of claim 13, wherein the interactive toy further includes an ultrasonic energy converter for transmitting and receiving ultrasonic signals at different times.

20. (currently amended) An interactive toy using an ultrasonic wave to transmit a signal, the interactive toy comprising:

an ultrasonic transceiver, used to transmit and receive an ultrasonic signal, so as to have an interactive response between the interactive toy and another one of the interactive toy, wherein the ultrasonic signal include a digital modulation signal,

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wherein a content of the digital modulation signal is determined by whether or not the ultrasonic signal is exiting with respect to the time periods, so as to recover a content carried by the digital modulation signal.

22. (currently amended) The interactive toy of claim 20, wherein the ultrasonic transceiver includes a fixed interval sampling circuit for receiving the ultrasonic signal and sampling at fixed intervals, or an envelope detection circuit for detecting whether or not the ultrasonic signal exist within the time periods.
